

# **LITERATURE SURVEY ON THE SELECTED PROJECT & INFORMATION GATHERING**

## **ABSTRACT:**

With the advancement of technology, new software and devices are being developed to ease man's work. Waiting for train tickets in long queues is a time consuming process. Diagnosing record of real-time data of each who are all using train tickets or metro tickets, metro ticket booking system automation would be beneficial for government to implement proper and better rates for tickets and also it would be useful for people as they don't need to wait in long queues.

This system is useful for passengers to get their ticket online instead of standing in long queues to obtain their ticket. This system is helpful to reduce the paper work; time consumption and passengers get the metro ticket in simple and faster way. In this paper, we are proposing QR-code generator and reader for metro ticket system. The QR-code (Quick Response code) becomes popular outside the automotive industry due to its fast readability and greater storage capacity compared to standard UPC barcodes and we also propose facility to take metro ticket using android mobile application. This system provides a facility for ticket checker to check daily passengers ticket by just scanning the QR-code. The app is also providing live tracking so that passengers can view upcoming stations on map and time to reach at particular station. This project provides an effective solution for managing metro tickets using a database. Our system has two logins; one for passengers, and another for ticket checker.

## **LITERATURE SURVEY:**

A QR-code (it stands for "Quick Response") is a mobile phone readable barcode that can store website URL's, plain text, phone number, Email addresses and pretty much any other alphanumeric data. The Quick Response (QR) code first used in automotive industry has now become popular due to its large storage capacity and extremely less response time where QR-code is used to store user information in encoded form. QR-code can be used in Android, Blackberry OS, Nokia Symbian as well as Apple iOS devices. The browser supports URL redirection which allows QR-code to send metadata to existing applications on the device.

## **OBJECTIVES:**

- Reducing waiting time of passenger in que.
- Develop an android application that is costefficient.
- Use of QR-code technique which provide bettersolution without extra hardware requirement
- Generating quick and easy to use androidapplication.
- Improving security of passenger's ticket by providing registration and login to androidapplication